

Tilak Maharashtra Vidyapeeth
Department of Computer Science
BCA (Cyber Security) course structure 2025-26

B. C. A. (Specialization in Cyber Security) (464)									
Subject Code	Subject Name	Category	Credit		Theory Marks		Practical Marks		Total Marks
			Th	Pr	EXT	INT	EXT	INT	
BCAC25-101	C Programming	Core	3	-	60	40	-	-	100
BCAC25-102	Mathematics	Core	4	-	60	40	-	-	100
BCAC25-103	Computer & Network Fundamentals	Interdisciplinary	3	-	60	40	-	-	100
BCAC25-104	Operating System	DSC	3	-	60	40	-	-	100
BCAC25-105	English	AECC	2	-	30	20	-	-	50
BCAC25-106	OR Sanskrit								
VAC105	Nitishataka Purvardha (Marathi)	Open Elective	2	-	-	50	-	-	50
VAC109	OR Gender Perspectives								
BCAC25-107	Logic Development	DSC	2	-	-	50	-	-	50
BCAC25-108	C Programming (PR)	Core-LAB	-	1	-	-	30	20	50
			20						600
BCAC25-201	Object Oriented Programming using C++	Core	3	-	60	40	-	-	100
BCAC25-202	Statistics	Core	4	-	60	40	-	-	100
BCAC25-203	Structured System Analysis and Design	DSC	3	-	60	40	-	-	100
BCAC25-204	Basics of Ethical Hacking	Core	3	-	60	40	-	-	100
BCAC25-205	Communication Skills	AECC	2	-	30	20	-	-	50
BCAC25-206	Yoga	Open Elective	-	2	30	20			50
OR	OR								
VAC207	Nitishataka Uttarardha (Marathi)		2	-	-	50	-	-	
OR	OR								
VAC211	Moral Values		2	-	-	50			
IKS24	Indian Knowledge System (IKS)	IKS	2	-	-	50	-	-	50
BCAC25-207	Object Oriented Programming using C++ (PR)	Core-Lab	-	1	-	-	30	20	50
			20						600

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Subject Code	Subject Name	Category	Credit Th Pr	Theory Marks EXT INT	Practical Marks EXT INT	Total Marks	
BCAC25-301	Advanced Web Designing	Core	3	-	60 40	- - 100	
BCAC25-302	Database Management System (DBMS)	Core	3	-	60 40	- - 100	
BCAC25-303	Environmental Studies	Value Added Course	4	-	- 100	- - 100	
BCAC25-304	Application and Network Attacks	Core	3	-	60 40	- - 100	
BCAC25-305	Marathi	AECC	2	-	30 20	- - 50	
BCAC25-306	OR Japanese						
SEC301	Advanced Excel	Skill Enhancement Course	2	-	- 50	- - 50	
BCAC25-307	Cyber Security Analysis and Countermeasures	DSC	2	-	- 50	- - 50	
BCAC25-308	Advanced Web Designing (PR)	Core-Lab	-	1	- - 30 20	50	
			20				600
BCAC25-401	Advanced Database Management System	Core	3	-	60 40	- - 100	
BCAC25-402	Java Programming	Core	3	-	60 40	- - 100	
BCAC25-403	Vulnerabilities Analysis & Penetration Testing	DSC	3	-	60 40	- - 100	
BCAC25-404	Unified Modeling Language(UML)	DSC	3	-	60 40	- - 100	
BCAC25-405	Soft Skills	Open Elective	1	1	-	50	- - 50
OR VAC403	OR Personality Development		2	-	-		
BCAC25-406	IT Act & DPDP Act	DSC	3	-	60 40	- - 100	
BCAC25-407	Vulnerabilities Analysis & Penetration Testing (PR)	DSC-LAB	-	1	- - 30 20	50	
BCAC25-408	Java Programming (PR)	Core-LAB	-	1	- - 30 20	50	
BCAC25-409	Advanced Database Management System (PR)	Core-LAB	-	1	- - 30 20	50	
			20				700

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BCAC25-501	Python Programming	Core	3	-	60	40	-	-	100
BCAC25-502	Data acquisition and forensics	Core	3	-	60	40	-	-	100
BCAC25-503	C# Basics	DSC	2	-	-	50	-	-	50
BCAC25-504	E-Commerce	Interdisciplinary	3	-	60	40	-	-	100
BCAC25-505	Cyber Crime Investigation	Core	3	-	60	40	-	-	100
BCAC25-506	Future Trends in Cyber Security	DSC	3	-	60	40	-	-	100
BCAC25-507	Python Programming (PR)	Core-LAB	-	1	-	-	30	20	50
BCAC25-508	Cyber Crime Investigation (PR)	Core-LAB	-	1	-	-	30	20	50
BCAC25-509	Data acquisition and forensics (PR)	Core-LAB	-	1	-	-	30	20	50
			20						700
BCAC25-601	Mobile Audit & Forensics	Core	3	-	60	40	-	-	100
BCAC25-602	Blockchain Technology	DSC	2	-	30	20	-	-	50
BCAC25-603	Cloud Technology & Security	Core	3	-	60	40	-	-	100
BCAC25-604	Project	Core	-	4	-	-	60	40	100
BCAC25-605	Mooc - I	Mooc	2	-	-	50	-	-	50
BCAC25-606	Internship	Internship	-	4	-	-	-	100	100
BCAC25-607	Cloud Technology & Security (PR)	Core-LAB	-	1	-	-	30	20	50
BCAC25-608	Mobile Audit & Forensics (PR)	Core-LAB	-	1	-	-	30	20	50
			20						600

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BCA25-701	Data Structure using python	Core	3	-	60	40	-	-	100
BCA25-702	Green Computing	DSC	3	-	60	40	-	-	100
BCA25-703	Discrete Mathematics	Core	3	-	60	40	-	-	100
BCA25-704	Advanced Linux & Server Security	DSC	3	-	60	40	-	-	100
BCA25-705	Infrastructure Audit and Security	DSC	3	-	60	40	-	-	100
BCA25-706	Research Methodology	AECC	4	-	60	40	-	-	100
BCA25-707	MOOC - II	MOOC	-	1	-	50	-	-	50
BCA25-708	Data Structure using python (PR)	Core-LAB	-	1	-	-	30	20	50
BCA25-709	Advanced Linux & Server Security (PR)	DSC-LAB	-	1	-	-	30	20	50
			22						750
BCA25-801	Social Media Analytics & Security	Core	3	-	60	40	-	-	100
BCA25-802	Advanced Computer Network	DSC	3	-	60	40	-	-	100
BCA25-803	Django Web Framework	DSC	3	-	60	40	-	-	100
BCA25-804	Project (Red Team Audit)	Core	-	6	-	-	-	200	200
BCA25-805	Internship	Internship	-	4	-	-	-	100	100
BCA25-806	MOOC - III	MOOC	2	-	-	-	-	100	100
BCA25-807	Django Web Framework (PR)	DSC-LAB	-	1	-	-	30	20	50
			22						750